IN THE CLAIMS

Please cancel all pending claims, i.e., claims 1-5, without prejudice or disclaimer of the subject matter recited therein and please add new claims 6-25 as follows:

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

Claims 1-5 (Canceled).

- 6. (New) A device for damping oscillations of a combustion chamber comprising:

 at least one resonator connected to a pre-chamber in a vibration-damping manner,

 wherein the pre-chamber is connected to a combustion chamber in a vibration-damping

 manner via at least one passage channel.
- 7. (New) The device of claim 6, wherein the combustion chamber adjoins an injection head having at least one injection element.
- 8. (New) The device of claim 7, wherein the injection head conducts a fuel flow into the combustion chamber.
- 9. (New) The device of claim 8, wherein the pre-chamber is arranged upstream of the at least one injection element.

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- 10. (New) The device of claim 8, wherein the pre-chamber is arranged an area of the at least one injection element.
- 11. (New) The device of claim 6, wherein the pre-chamber is in fluid connection with a fuel flow.
- 12. (New) The device of claim 6, wherein the at least one passage channel is part of an injection element.
 - 13. (New) The device of claim 6, wherein the combustion chamber is part of a rocket engine.
 - 14. (New) A system for damping oscillations, the system comprising:
 - a combustion chamber;
 - an injection head arranged upstream of the combustion chamber;
 - a pre-chamber arranged upstream of the injection head; and
- at least one resonator structured and arranged to dampen vibrations of the combustion chamber and comprising one of:
 - an opening communicating with the pre-chamber; and an opening communicating with an open area of the injection head.

- 15. (New) The system of claim 14, wherein the combustion chamber comprises an outlet arranged opposite the injection head.
- 16. (New) The system of claim 14, wherein the opening communicating with the pre-chamber comprises a circumferential opening.
 - 17. (New) The system of claim 14, wherein the at least one resonator is annular shaped.
- 18. (New) The system of claim 14, wherein the at least one resonator comprises a sleeve which extends into the open area of the injection head.
- 19. (New) The system of claim 14, wherein the at least one resonator comprises a sleeve oriented along a direction of gas flow and which extends into the open area of the injection head.
- 20. (New) The system of claim 14, wherein the at least one resonator comprises a plurality of sleeves at least one of oriented along a direction of gas flow and extending into the open area of the injection head.
- 21. (New) The system of claim 14, wherein the at least one resonator comprises a radially oriented opening communicating with the pre-chamber.

- 22. (New) The system of claim 14, wherein the at least one resonator comprises a plurality of radially oriented openings communicating with the pre-chamber.
- 23. (New) The system of claim 14, wherein the at least one resonator comprises a radially oriented opening communicating with the open area of the injection head.
 - 24. (New) The system of claim 14, wherein the at least one resonator is one of: integrally formed in a side wall of the pre-chamber; integrally formed in an end wall of the pre-chamber; and integrally formed in a side wall of the injection head.
 - 25. (New) A system for damping oscillations of a rocket engine, the system comprising: a combustion chamber;

an injection head arranged upstream of the combustion chamber;

a pre-chamber arranged upstream of the injection head; and

at least one resonator structured and arranged to dampen vibrations of the combustion chamber and comprising one of:

an opening communicating with the pre-chamber; and an opening communicating with an open area of the injection head.